

**AMENDMENT TO H.R. 5358**  
**OFFERED BY MS. EDDIE BERNICE JOHNSON OF**  
**TEXAS**

Page 31, line 3, redesignate section 14 as section 15.

Page 31, after line 2, insert the following new section:

1 **SEC. 14. PARTNERSHIPS FOR ACCESS TO LABORATORY**

2 **SCIENCE.**

3 (a) PROGRAM AUTHORIZED.—

4 (1) IN GENERAL.—

5 (A) AUTHORITY TO MAKE GRANTS.—The  
6 Director of the National Science Foundation (in  
7 this section referred to as the “Director”) shall  
8 carry out a program to award grants to up to  
9 5 high-need local educational agencies to estab-  
10 lish partnerships for access to laboratory  
11 science to improve laboratories and provide in-  
12 strumentation as part of a comprehensive pro-  
13 gram to enhance the quality of mathematics,  
14 science, engineering, and technology instruction  
15 at the secondary school level.



1 (B) CRITERIA FOR AWARDING GRANTS.—

2 Grants shall be awarded under this section on  
3 a competitive, merit-reviewed basis.

4 (2) PARTNERSHIPS.—In order to be eligible to  
5 receive a grant under this section, a high-need local  
6 educational agency shall enter into a partnership  
7 that—

8 (A) includes an institution of higher edu-  
9 cation or a community college; and

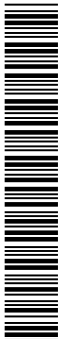
10 (B) includes at least one—

11 (i) business or eligible nonprofit orga-  
12 nization; or

13 (ii) State educational agency, other  
14 public agency, National Laboratory, or  
15 community-based organization.

16 (3) FEDERAL SHARE.—The Federal share of  
17 the cost of activities carried out using amounts from  
18 a grant under this section shall not exceed 33 per-  
19 cent.

20 (4) DURATION.—A high-need local educational  
21 agency that receives approval of a grant application  
22 submitted under this section shall be eligible to re-  
23 ceive grants under this section for activities de-  
24 scribed in the application for a period of 3 fiscal  
25 years.



1           (5) PLAN REQUIRED.—In order to be eligible  
2           for a grant under this section, a high-need local edu-  
3           cational agency shall submit to the Director a plan,  
4           developed in consultation with teachers, science ad-  
5           ministrators, scientists, education researchers, and  
6           other individuals with expertise in laboratory science  
7           and classroom instruction, for carrying out the pro-  
8           gram under this section. Such plan shall—

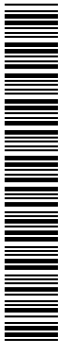
9                   (A) describe how the proposed laboratory  
10           improvements and instrumentation are con-  
11           sistent with State mathematics and science aca-  
12           demic achievement standards;

13                   (B) describe how the proposed laboratory  
14           improvement and instrumentation are part of a  
15           comprehensive program to enhance the quality  
16           of mathematics, science, engineering, and tech-  
17           nology instruction, including a description of  
18           how the laboratory experiences—

19                           (i) are designed to produce clear  
20           learning outcomes;

21                           (ii) are sequenced to complement the  
22           classroom science instruction;

23                           (iii) are designed to integrate science  
24           learning with science content; and



1 (iv) will incorporate ongoing student  
2 reflection and discussion;

3 (C) describe professional development and  
4 training activities for teachers and school per-  
5 sonnel who will be working in the laboratory fa-  
6 cilities;

7 (D) provide assurances that all safety re-  
8 quirements as required by State or local ordi-  
9 nance or by the Director will be met;

10 (E) describe how the laboratory and in-  
11 strumentation will be maintained after the pe-  
12 riod of financial assistance provided under the  
13 grant; and

14 (F) describe how assessment methods will  
15 be used to expand the available research lit-  
16 erature regarding the effect of laboratory  
17 science on student understanding of scientific  
18 concepts and student achievement.

19 (6) USES OF FUNDS.—Grants awarded under  
20 this section—

21 (A) shall be used to supplement and not  
22 supplant existing programs or activities; and

23 (B) shall be used for activities that draw  
24 upon the expertise of all partners to improve  
25 secondary science education by improving lab-



1 oratories and providing instrumentation as part  
2 of a comprehensive program to enhance the  
3 quality of mathematics, science, engineering,  
4 and technology instruction at the secondary  
5 school level in a manner that is consistent with  
6 State mathematics and science student aca-  
7 demic achievement standards, including—

8 (i) development of a plan for labora-  
9 tory improvement and instrumentation  
10 that is consistent with State mathematics  
11 and science academic achievement stand-  
12 ards;

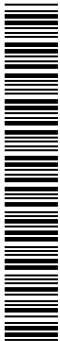
13 (ii) purchase, rental, or leasing of  
14 equipment, instrumentation, and other sci-  
15 entific educational materials;

16 (iii) maintenance, renovation, and im-  
17 provement of laboratory facilities;

18 (iv) professional development and  
19 training for teachers;

20 (v) development of curricula and in-  
21 structional programs designed to integrate  
22 the laboratory experience with classroom  
23 instruction;

24 (vi) training in laboratory safety for a  
25 school personnel;



1 (vii) design and implementation of  
2 hands-on laboratory experiences to encour-  
3 age the interest of individuals identified in  
4 section 33 or 34 of the Science and Engi-  
5 neering Equal Opportunities Act (42  
6 U.S.C. 1885a or 1885b) in mathematics,  
7 science, engineering, and technology and  
8 help prepare such individuals to pursue  
9 postsecondary studies in these fields;

10 (viii) development of tools to evaluate  
11 activities funded under this subsection; and

12 (ix) any other activities the Director  
13 determines will accomplish the goals of this  
14 subsection.

15 (7) LIMITATION ON USE OF FUNDS.—Grants  
16 awarded under this section shall not be used for con-  
17 struction of new facilities.

18 (b) SELECTION PROCESS.—

19 (1) APPLICATION.—A high-need local edu-  
20 cational agency seeking a grant under this section  
21 shall submit an application to the Director at such  
22 time, in such manner, and containing such informa-  
23 tion as the Director may require. The application  
24 shall include, at a minimum—



1 (A) a description of the partnership en-  
2 tered into under subsection (a)(2) and the role  
3 that each member will play in implementing the  
4 proposal;

5 (B) the plan described in subsection (a)(5);

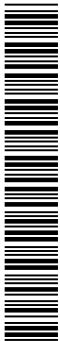
6 (C) a description of each of the activities  
7 to be carried out using amounts from the grant,  
8 together with—

9 (i) a description of how such activities  
10 will be aligned with State mathematics and  
11 science student academic achievement  
12 standards and with other activities that  
13 promote student achievement in mathe-  
14 matics and science;

15 (ii) a description of how such activi-  
16 ties will be based on a review of relevant  
17 research, including best practices;

18 (iii) a description of why such activi-  
19 ties are expected to improve student per-  
20 formance and strengthen the quality of  
21 mathematics and science instruction;

22 (iv) a description of any activities that  
23 will encourage the interest of individuals  
24 identified in section 33 or 34 of the  
25 Science and Engineering Equal Opportuni-



1           ties Act (42 U.S.C. 1885a or 1885b) in  
2           mathematics, science, engineering, and  
3           technology and how such activities will help  
4           prepare such individuals to pursue postsec-  
5           ondary studies in these fields; and

6           (v) a description of how changes in  
7           student achievement will be assessed;

8           (D) a description of how the partnership  
9           will assess its success; and

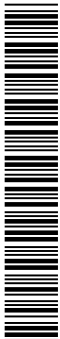
10          (E) a description of how programmatic as-  
11          sessments will be made available to the larger  
12          research community.

13          (2) REVIEW OF APPLICATIONS.—In evaluating  
14          the applications submitted under paragraph (1), the  
15          Director shall consider, at a minimum—

16               (A) the ability of the partnership to carry  
17               out effectively the proposed programs;

18               (B) the degree to which activities carried  
19               out by the partnership are based on relevant re-  
20               search, including best practices, and are likely  
21               to result in increased student achievement;

22               (C) the degree to which such activities are  
23               aligned with State mathematics and science stu-  
24               dent academic achievement standards;





1 (D) the likelihood that the partnership will  
2 demonstrate activities that can be widely imple-  
3 mented as part of larger scale reform efforts;  
4 and

5 (E) the extent to which the activities will  
6 encourage the interest of individuals identified  
7 in section 33 or 34 of the Science and Engi-  
8 neering Equal Opportunities Act (42 U.S.C.  
9 1885a or 1885b) in mathematics, science, engi-  
10 neering, and technology and will help prepare  
11 such individuals to pursue postsecondary stud-  
12 ies in these fields.

13 (c) REPORT TO CONGRESS.—The Director shall  
14 evaluate the program established under this section and  
15 report the results to the Committee on Science of the  
16 House of Representatives and the Committee on Com-  
17 merce, Science, and Transportation of the Senate. At a  
18 minimum, such evaluation shall—

19 (1) use a common set of benchmarks and as-  
20 sessment tools to identify best practices and mate-  
21 rials developed and demonstrated by the partner-  
22 ships; and

23 (2) to the extent practicable, compare the effec-  
24 tiveness of practices and materials developed and  
25 demonstrated by the partnerships authorized under



1       this section with those of partnerships funded by  
2       other State or Federal agencies.

3       (d) AUTHORIZATION OF APPROPRIATIONS.—There  
4       are authorized to be appropriated to the Director to carry  
5       out this section \$3,000,000, for the establishment of up  
6       to 10 partnerships.

